

What is Claimed is:

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[c1] A computer program product, comprising: a computer storage medium and a computer program code mechanism embedded in the computer storage medium for causing a computer to control a format used for data communication between a remote receiver and at least one of a device, an appliance, an application and an application unit, the computer program code mechanism comprising: a first computer code device configured to provide plural communications formats capable of providing data transfer; a second computer code device configured to select a first format of the plural communications formats to transfer data between the remote receiver and the at least one of a device, an appliance, an application and an application unit; a third computer code device configured to select a second format of the plural communications formats to transfer data between the remote receiver and the at least one of a device, an appliance, an application and an application unit; a fourth computer code device configured to collect events at the at least one of a device, an appliance, an application and an application unit; a fifth computer code device configured to dynamically generate first and second format processors for implementing the first and second formats; a sixth computer code device configured to attempt to transfer the collected events between the remote receiver and the at least one of a device, an appliance, an application and an application unit using the first format processor; a seventh computer code device configured to attempt to transfer the collected events between the remote receiver and the at least one of a device, an appliance, an application and an application unit using the second format processor after attempting to transfer the collected events between the remote receiver and the at least one of a device, an appliance, an application and an application unit using the first format processor.

[c2] The computer program product as claimed in claim 1, wherein the first computer code device comprises a library of code shared between first and second applications.

- [c3] The computer program product as claimed in claim 1, wherein the first computer code device comprises a dynamically linked library of code shared between first and second applications.
- [c4] The computer program product as claimed in claim 1, wherein the fifth computer code device comprises an eighth computer code device configured to implement a container class including an entry for each of the plural formats, wherein each entry includes a key and a value.
- [c5] The computer program product as claimed in claim 4, wherein the eighth computer code device comprises a map.
- [c6] The computer program product as claimed in claim 4, wherein the value of the eighth computer code device comprises a pointer to a function configured to dynamically generate a corresponding format processor of the first and second format processors as specified by the corresponding key.
- [c7] The computer program product as claimed in claim 6, wherein the value further comprises an attribute for identifying whether the fifth computer code device previously dynamically generated the corresponding format processor.
- [c8] The computer program product as claimed in claim 7, wherein the attribute stores (1) a zero value if the fifth computer code device has not previously dynamically generated the corresponding format processor and (2) stores a pointer to the corresponding format processor if the fifth computer code device previously dynamically generated the corresponding format processor.

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[c18] A computer-implemented method for causing a computer to control a format used for data communication to a remote receiver, comprising: providing plural communications formats capable of providing data transfer; selecting a first format of the plural communications formats to transfer data between the remote receiver and at least one of a device, an appliance, an application and an application unit; selecting a second format of the plural communications formats to transfer data between the remote receiver and the at least one of a device, an appliance, an application and an application unit; collecting events at the at least one of a device, an appliance, an application and an application unit; dynamically generating first and second format processors for implementing the first and second formats; performing a first attempt to transfer the collected events between the remote receiver and the at least one of a device, an appliance, an application and an application unit using the first format processor; and performing a second attempt to transfer the collected events between the remote receiver and the at least one of a device, an appliance, an application and an application unit using the second format processor after the first attempt.

[c19] The method as claimed in claim 18, wherein the step of providing comprises providing a library of code shared between first and second applications.

[c20] The method as claimed in claim 18, wherein the step of providing comprises providing a dynamically linked library.